

SOUNDTRACS^{PLC}

TOPAZ MAXI 24 - 4 - 2 MIXER

TOPAZ MAXI 32 - 4 - 2 MIXER

TECHNICAL INFORMATION

Issue B Sept. 95

www.studiosystems.co.uk
16 Holman Rd, Liskeard Biz Park,
Cornwall PL14 3UT . UK
tim@studiosystems.co.uk

Copyright Soundtracs PLC 2000.
All rights reserved

Information in this manual is subject to change without notice and does not represent a commitment on the part of the vendor. Soundtracs PLC shall not be liable for any loss or damage whatsoever arising from the use of information or any error contained in this manual. No part of this manual may be reproduced without the express written permission of Soundtracs PLC.

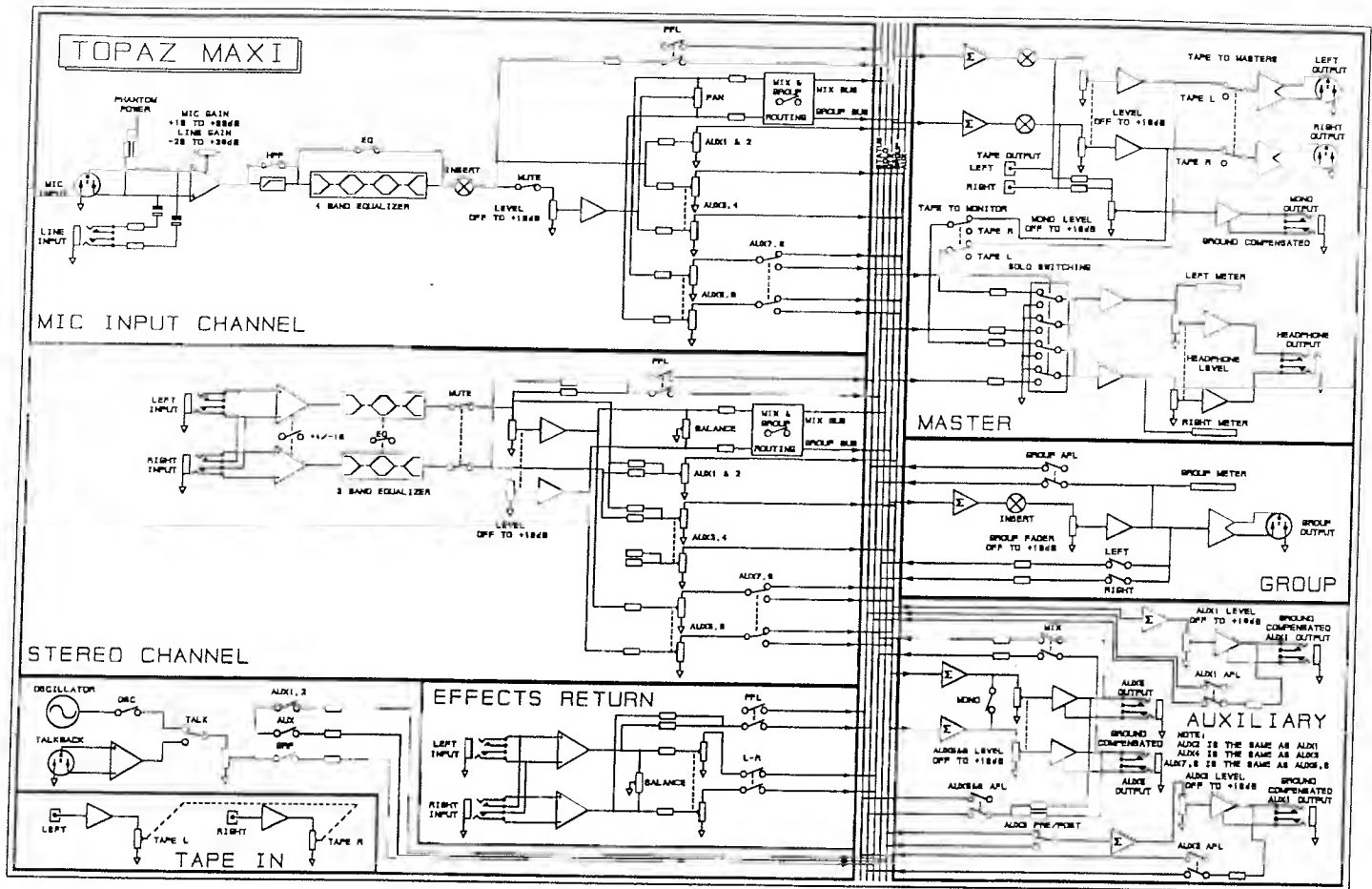
All repair and service of the product should be undertaken by Soundtracs PLC or its authorised agents. Soundtracs PLC cannot accept any liability whatsoever for any loss or damage caused by service, maintenance or repair by unauthorised personnel.

Soundtracs PLC
The Clock House
4 Dorking Road
Epsom, Surrey
KT18 7LX
England

Tel +44 (0)1372 845600
Fax +44 (0)1372 845656
email: info@soundtracs.com
web: www.soundtracs.com

www.studiosystems.co.uk
16 Holman Rd, Liskeard Biz Park,
Cornwall PL14 3UT, UK
tim@studiosystems.co.uk

① Technical Information



Specifications

INPUT & OUTPUT IMPEDANCES

Microphone Inputs	1k2 ohms
Line Inputs	>20k ohms
Outputs	<70 ohms

OUTPUT LEVELS

Master Outputs (Balanced)	+26dBu
Aux Outputs (Ground Comp)	+21dBu
Headphones (per side)	140mW into 600 ohms

FREQUENCY RESPONSE

Channel	20Hz - 30kHz \pm 1dB
---------	------------------------

E.I.N.

Source 150ohms	-128dBu
----------------	---------

MIX NOISE (Master Fader at 0dB)

Input Faders Down (24 Ch)	<-86dB
Input Faders Down (32 Ch)	<-84dB

DISTORTION

Line	<0.007% at 1kHz
------	-----------------

AUX NOISE

Input Sends Down (24 Ch)	<-86dBu
Input Sends Down (32 Ch)	<-84dBu

SIGNAL CROSSTALK (1kHz)

Input Fader Attenuation	>95dB
Aux Send Attenuation	>90dB
Adjacent Channel	>85dB
Stereo Channel Separation	>75dB

DIMENSIONS

24 Ch Weight (Unpacked)	25Kgs
24 Ch Width	980mm
32 Ch Weight (Unpacked)	30Kgs
32 Ch Width	1218mm
24 & 32 Height at Front	60mm
24 & 32 Height at Rear	120mm
24 & 32 Overall Depth	712mm
24 & 32 Overall Height	125mm

SUB AND FINAL ASSEMBLY PARTS LISTS FOR SOUNDTRACS PRODUCTS

INTRODUCTION

Soundtracs parts lists are printed according to the stages of assembly of the final product. Parts lists included in user manuals normally refer to the initial printed circuit board construction and correspond to the schematic circuit diagrams to aid in fault diagnostics during repairs.

In order to find part numbers for items used later in the construction of a product the relevant parts list must be consulted.

PARTS LISTS

In general the following applies to the reference number which are given to the various groups of lists:

Complete PCB's begin P

This will show resistors, IC's etc. PCB part lists may be further sub divided with a "VCD" part number. This is a list of small components fitted by the automatic insertion machine.

Module assemblies begin MOD-

This will show knobs, panels, fixing screws etc. The

MOD- prefix also refers to the complete electronics assembly of a single plate mixer such as Solo or Topaz. *

Chassis/frame assemblies begin FRM-

This will show the parts of large separate mechanical housings used on larger mixers such as Jade. (There are no FRM- lists for Solo, for example) *

Final assembly begins X-

This shows rear panels, end cheek mouldings, accessory cables etc. This will also include packing materials etc.

EXAMPLE: Topaz 24 in line recording mixer:

Input PCB component parts are listed under P-12979

Knobs are listed under MOD-TPZ-REC24

End cheeks are listed under X-TPZ-REC24

* For Topaz Mini, Macro, Macro+ and Maxi, these are reversed i.e. MOD- is the completed assembly and FRM is the assembled front panel with PCB's.

PCB Suffix Codes

On all recent Soundtracs PCB's the number shown will be in the form of P12345/01 ISS A.

The P code will be the same as the drawing number which begins S. e.g. S12345. If there several pages these will be S12345A, S12345B etc. but all refer to 1 PCB.

The suffix /01, /02 etc. which is seen on the PCB refers to the "layer" of the PCB e.g.. component side copper, solder mask etc. The most common code seen is /01 which is copper layout on the non component side and /05 which is the component ident printing on the component side. The issue version maybe relevant and is the "ISS A" adjacent to the P12345 and NOT the hand written ISSUE elsewhere on the PCB (this is the component kit issue).

CONFIRMATION OF PERFORMANCE FOR SOUNDTRACS MIXERS

INTRODUCTION

The following is a condensed version of test procedures for checking Soundtracs consoles to original factory published specifications. Refer to the figures given in product user manual or brochure when performing the following tests.

Any tests should be carried out with the mixer operated in isolation with NO external equipment connected except the measurement instrument. (monitor using headphones or battery powered loudspeakers if required).

The correct use and setup of audio measurement systems is an art in itself and a failure of an otherwise fault free mixer to meet specifications is invariably due to incorrect setup or procedure. Please contact the factory for further advice on our procedures and your test system supplier for advice on the optimum use of your test system.

01/96

DISTORTION

1. Set the fader on the channel to be tested to "0" i.e., 10 dB below the top of fader movement and route the channel to the left output. Make sure no other channels are routed to the left output (if the mixer has no routing switches, the published specification allows for this) and that all other faders, monitors and effects returns are turned down.
2. Set the master faders to zero. (This is 10dB below the top of the fader movement on some mixers).
3. Connect a low distortion signal generator to the line input of a channel, and set to give +10dBu on the Left output.
4. Measure distortion at the left output of the console. The Distortion meter should be average responding and have a LP filter at 80kHz.

ADJACENT CHANNEL CROSSTALK

1. Input a reference + 4 dBu sine wave to the line input of one channel. Set the fader on the channel to 0 (10 dB below max.), route the channel to L/R and set the pan to centre.
2. Connect audio level meter to the line output of an adjacent channel. The meter should be average responding, with 22Hz -22kHz bandwidth. Set the fader on the second channel to 0, route the channel to L/R and set the pan to centre.
3. Connect a 150 Ohm resistor to the line input of the second channel, set the gain to zero and select line in.
4. Take two readings from the meter, one at 1kHz and one at 10kHz.
5. Where there is no line output from an adjacent channel, DO NOT pan one channel left, the other right and measure the left - right difference. This is NOT channel separation (and is NOT the stereo separation either!). This gives the pan control performance which is limited by the pan control pots, usually to about 65 dB.

④

MIX NOISE

1. Set Master L & R faders or other outputs (e.g. groups or Aux.'s) to be measured to "0" . (This is 10dB below the top of the fader movement on some mixers).
2. Set all channel faders and monitor pots (if fitted) to the bottom of their movement (no output from channel). This ensures we are looking at only the mix noise and not any contributed from channels themselves.
3. Set all pan controls to the centre position.
4. Route the required number of channels to MIX / L-R or other output as required. This is indicated in the brochure. i.e. If the brochure states 32 inputs routed then 32 inputs must be routed. This could be 24 monitors and 8 effects returns, 16 channels and 16 monitors, etc. Remember to include any FX returns etc. that are permanently selected. Note that all Aux sends are usually all routed at all times.
5. Connect test instrument to either L or R master output or other output of interest.
6. Set instrument to measure amplitude, average detector, 22Hz - 22kHz bandwidth, unweighted. 0 dBr = +4 dBu (0 dBu = 775mV). (Using RMS will make the reading about 1 dB worse).
7. Switch ground lift switch on PSU to ensure you do not have ground loops in your test set-up. Noise should be as per our published figures (usually around -80dBr) or better. If it is worse, look at this with an oscilloscope or better, a spectrum analyser to determine what it is that you can hear. This often turns out to be hum, either due to bad earthing or induction.

Soundtracs use Audio Precision instruments to obtain the published results but any regular Audio mV meter should work.

MICROPHONE EQUIVALENT INPUT NOISE

If you are comparing a Soundtracs with a different mixer, be careful not to be deceived by different gain structures (in particular the +10dB gain in the mix master faders which if pushed to the top will show 10dB "extra" noise).

1. Un-route all channels groups and returns except channel under test. Route this to MIX / L-R. (if the mixer has no routing switches, the published specification allows for this)
2. Set channel fader to "0" i.e.. 10 dB below the top of fader movement.
3. Set Master L faders to "0" as per mix noise, above.
4. Input -60dB sine wave reference level signal to the channel under test, pan full left.
5. Set channel gain to maximum and measure L mix output, this shows the channel gain.
6. Disconnect input signal and replace with 150ohm dummy load.
7. Measure output noise on left master output with the same set up as for mix noise.
8. Channel noise is gain + measured noise e.g.: -60dBr gain and -69dBr noise gives -129dBr noise for the mic input.



SOUNDTRACS POTENTIOMETER DECODER

Revised 30th April 96

Because of the huge number of pots in use we use a number based system. Whilst circuit diagrams show most component values, the pots are called up by their part number. This "decoder" is to give service engineers a handy reference as to what the value and type these pots are. In addition, some other useful information follows.

Linear, Logarithmic and Reverse- or Anti-Log law & Values in Ohms

In general pots are marked with the value e.g. 10K and a letter giving the law.

There are however 2 different sets of codes.

Japanese manufacturers (notably Alps) use a different code from European types

A = Log (i.e. = audio) B = Linear C = RLog

Pots are either marked in simple 10K (=10,000 ohm) form or the more recent style (as used on many capacitors) showing the number of zero's e.g. 10K = 103 (10 followed by 3 zero's)

In general the part number defines the type for a particular application.

POT000104	22K RLOG	POT000106	5K RLOG (use POT000147)
POT000107	10K LIN CD	POT000108	50K LOG
POT000109	100K+100K RLOG	POT000110	10K+10K LIN CD
POT000111	50K+50K LOG	POT000112	use POT000114
POT000113	10K LOG STEREO FDR	POT000114	10K LOG side pcb FDR
POT000115	use POT000123	POT000116	10K LOG CD
POT000117	2X100K RLOG	POT000118	2X100K LOG
POT000119	10K LOG	POT000120	2X10K LIN CD
POT000121	2X10K LOG	POT000122	10K LOG FDR
POT000123	2X20K RLOG	POT000124	4X100K RLOG
POT000125	10K LOG FDR 60mm	POT000126	10K LOG FDR 60mm
POT000127	2X10K LOG	POT000129	4X 100K RLOG
POT000131	MOTOR FDR 10K LOG	POT000132	10K STER FDR
POT000133	MOTOR 10K LOG FDR	POT000134	use POT000121
POT000135	10K LOG FDR	POT000136	10K LOG FDR
POT000137	10K STEREO FDR	POT000138	10K MONO FDR
POT000139	5K RLOG (use POT0147)	POT000140	10K LIN CD (use POT0107)
POT000141	50K LOG (use POT0108)	POT000142	10K STEREO FDR
POT000143	10K MONO FDR	POT000144	10K STEREO FDR
POT000145	10K MONO 60mm FDR	POT000146	10K STEREO 60mm FDR
POT000147	5K D (special)	POT000148	10K MONO FDR
POT000149	10K STEREO FDR	POT000150	10K STEREO FDR 60mm
POT000151	10K MONO FDR 60mm		

Notes on listing

2x = dual (stereo) + = dual concentric

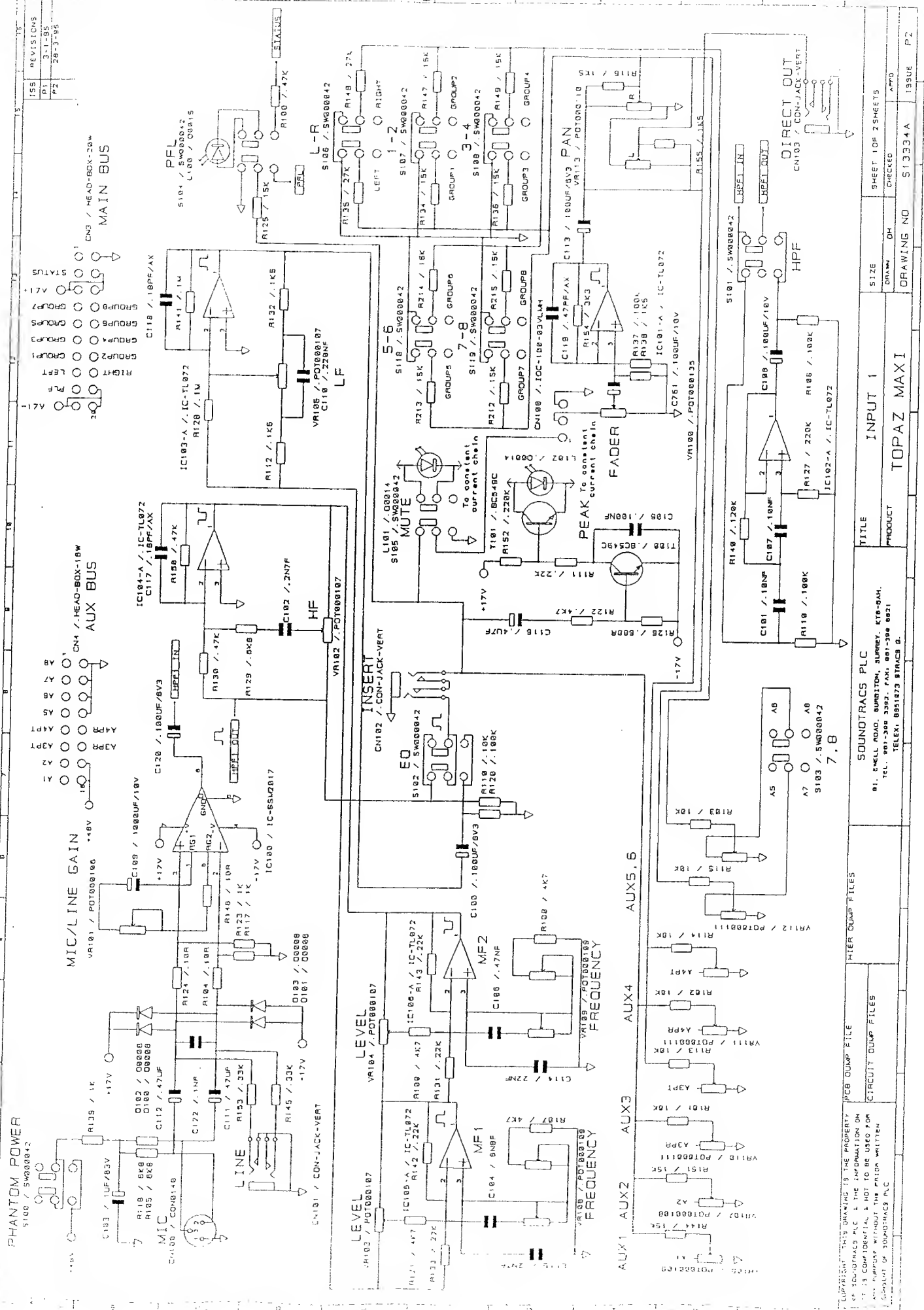
CD = Centre detent (e.g. panpots)

FDR = fader

K =1000's of ohms LIN = linear,

LOG = audio, RLOG = Reverse (or anti) Log

use.... = pot has been replaced new type



PHANTOM POWER

S102 / SW00042

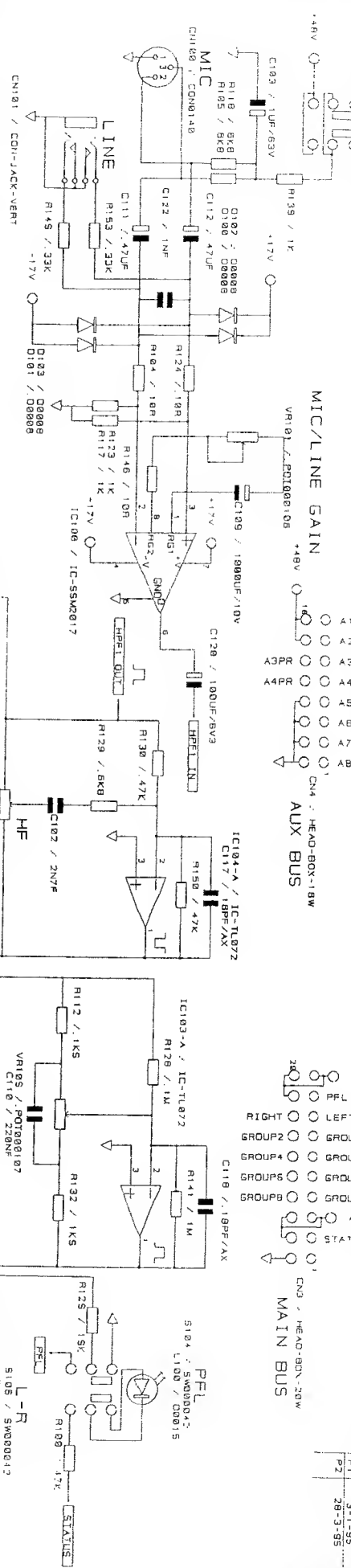
MIC/LINE GAIN

- A1
- A2
- A3PT
- A4PT
- A5
- A6
- A7
- A8
- A9
- A10
- A11
- A12
- A13
- A14
- A15
- A16
- A17
- A18
- A19
- A20
- A21
- A22
- A23
- A24
- A25
- A26
- A27
- A28
- A29
- A30
- A31
- A32
- A33
- A34
- A35
- A36
- A37
- A38
- A39
- A40
- A41
- A42
- A43
- A44
- A45
- A46
- A47
- A48
- A49
- A50
- A51
- A52
- A53
- A54
- A55
- A56
- A57
- A58
- A59
- A60
- A61
- A62
- A63
- A64
- A65
- A66
- A67
- A68
- A69
- A70
- A71
- A72
- A73
- A74
- A75
- A76
- A77
- A78
- A79
- A80
- A81
- A82
- A83
- A84
- A85
- A86
- A87
- A88
- A89
- A90
- A91
- A92
- A93
- A94
- A95
- A96
- A97
- A98
- A99
- A100

AUX BUS

- RIGHT
- LEFT
- GROUP1
- GROUP2
- GROUP3
- GROUP4
- GROUP5
- GROUP6
- GROUP7
- GROUP8
- GROUP9
- GROUP10
- GROUP11
- GROUP12
- GROUP13
- GROUP14
- GROUP15
- GROUP16
- GROUP17
- GROUP18
- GROUP19
- GROUP20
- GROUP21
- GROUP22
- GROUP23
- GROUP24
- GROUP25
- GROUP26
- GROUP27
- GROUP28
- GROUP29
- GROUP30
- GROUP31
- GROUP32
- GROUP33
- GROUP34
- GROUP35
- GROUP36
- GROUP37
- GROUP38
- GROUP39
- GROUP40
- GROUP41
- GROUP42
- GROUP43
- GROUP44
- GROUP45
- GROUP46
- GROUP47
- GROUP48
- GROUP49
- GROUP50
- GROUP51
- GROUP52
- GROUP53
- GROUP54
- GROUP55
- GROUP56
- GROUP57
- GROUP58
- GROUP59
- GROUP60
- GROUP61
- GROUP62
- GROUP63
- GROUP64
- GROUP65
- GROUP66
- GROUP67
- GROUP68
- GROUP69
- GROUP70
- GROUP71
- GROUP72
- GROUP73
- GROUP74
- GROUP75
- GROUP76
- GROUP77
- GROUP78
- GROUP79
- GROUP80
- GROUP81
- GROUP82
- GROUP83
- GROUP84
- GROUP85
- GROUP86
- GROUP87
- GROUP88
- GROUP89
- GROUP90
- GROUP91
- GROUP92
- GROUP93
- GROUP94
- GROUP95
- GROUP96
- GROUP97
- GROUP98
- GROUP99
- GROUP100

MAIN BUS



INSERT

MUTE

5-6

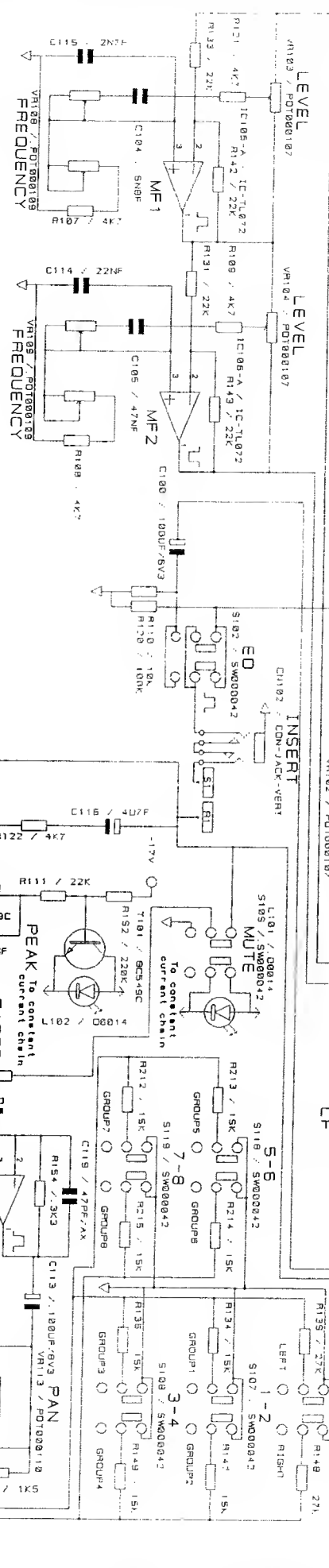
1-2

3-4

PEAK

FADER

PAN



AUX1

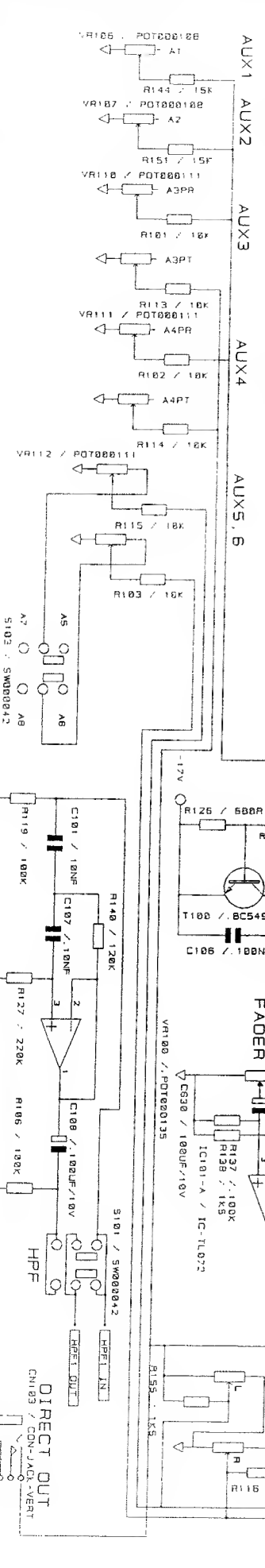
AUX2

AUX3

AUX4

AUX5

AUX6



PCB DUMP FILE

1. 19 CONFIDENTIAL & NOT TO BE USED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SOUNDTRACS PLC

CIRCUIT DUMP FILES

HIER DUMP FILES

SOUNDTRACS PLC

91, EMLL ROAD, SUBSTATION, SUMMIT, K16-8M

TEL: 081-399 3392 FAX: 081-399 6021

TELEX: 9951073 STRACS G

PRODUCT

INPUT 2

SIZE

DRAWN

CH

CHECKED

SHEET 10F 35SHEETS

APPD

TOPAZ MAXI

DRAWING NO

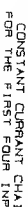
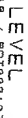
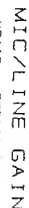
S13335A

ISSUE

P2

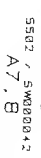
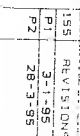


5109, SW000042

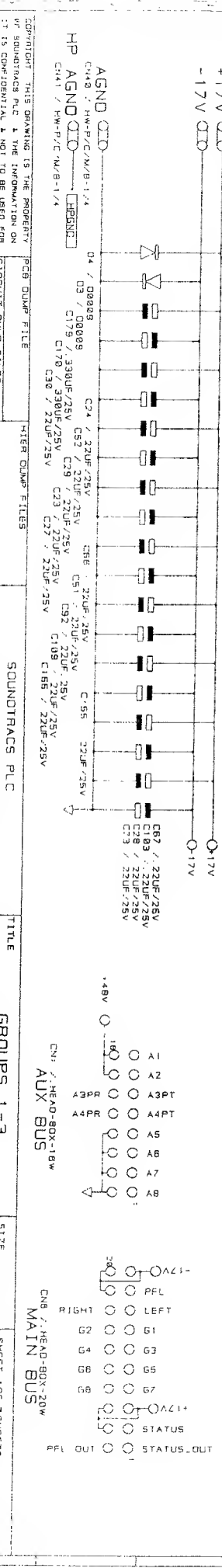
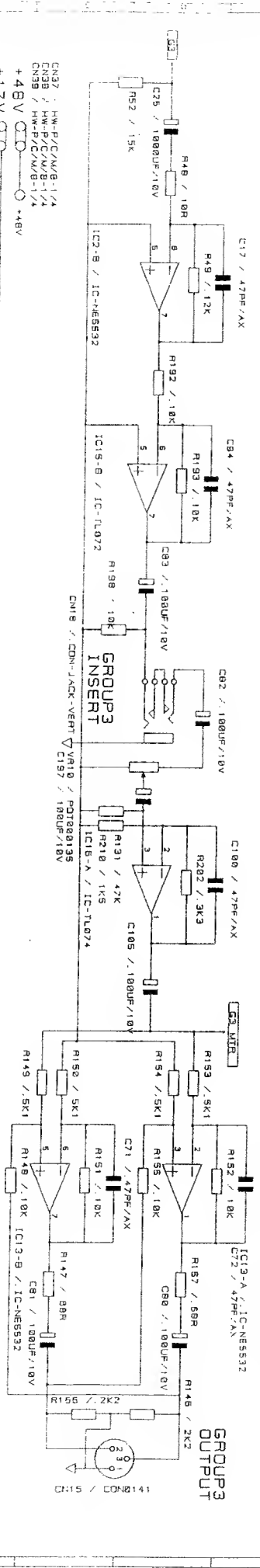
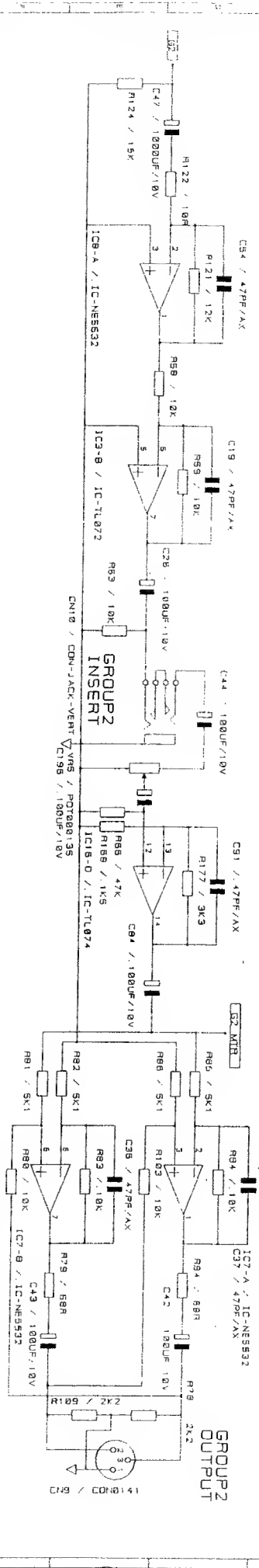
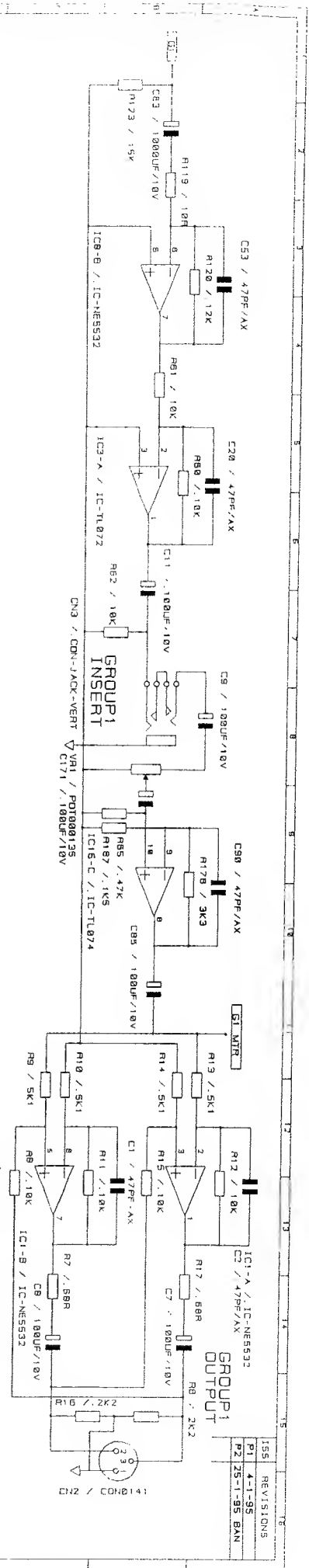


22UF/25V
22UF/25V

SIZE	SHEET ZOF 3SHEETS	
DRAWN	OK	CHECKED
		APPROD



SIZE		SHEET 30F 3SHEETS	
DRAWN	OH	CHECKED	APPRO
DRAWING NO		S13335C	1 ISSUE P2

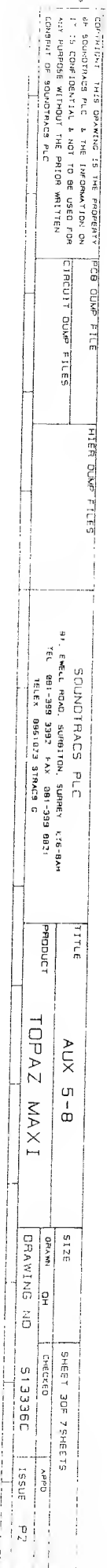


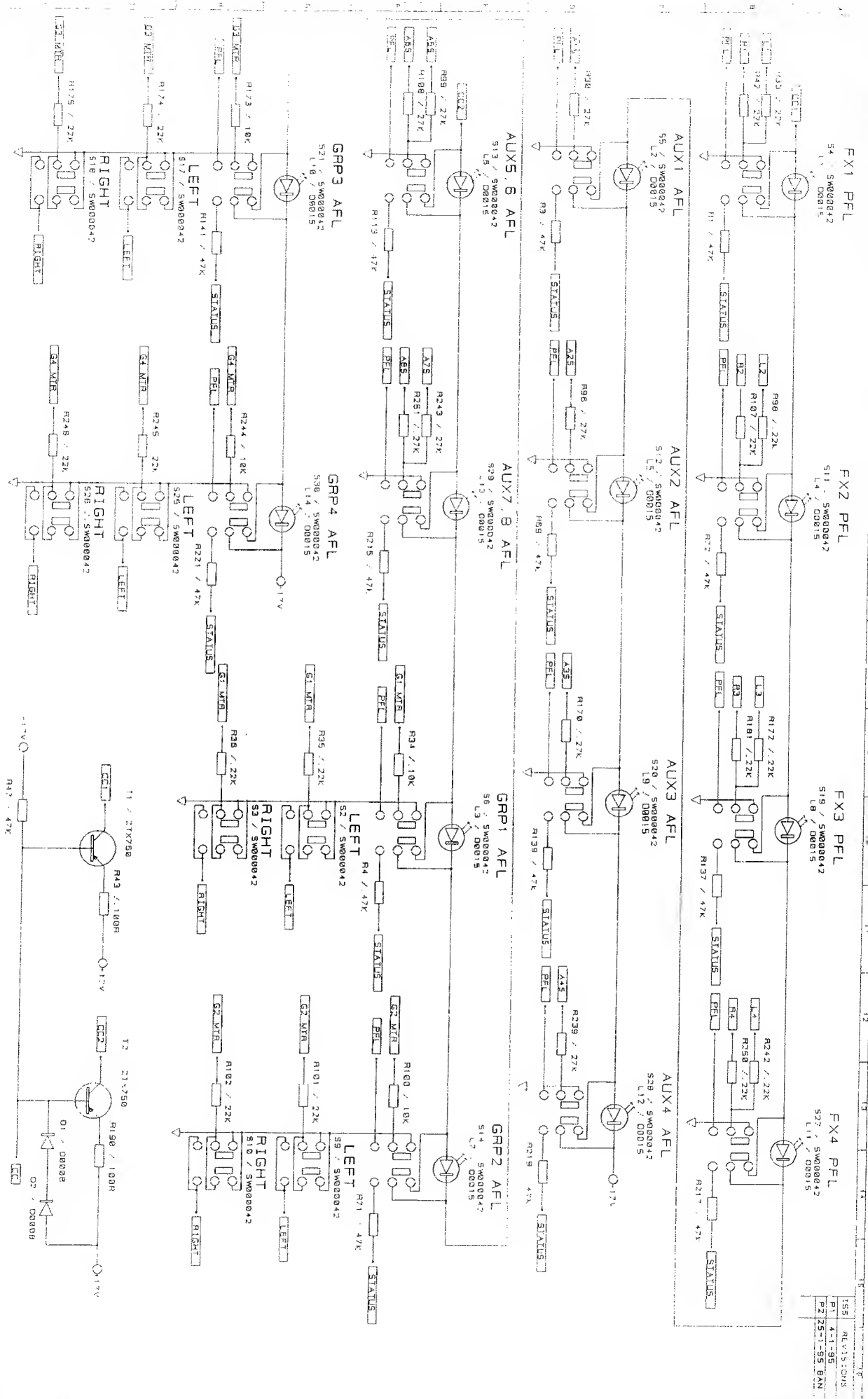
AGND
 CN37: HW-P/C/V/B-1/4
 CN38: HW-P/C/V/B-1/4
 CN39: HW-P/C/V/B-1/4
 CN40: HW-P/C/V/B-1/4
 CN41: HW-P/C/V/B-1/4
 CN42: HW-P/C/V/B-1/4
 CN43: HW-P/C/V/B-1/4
 CN44: HW-P/C/V/B-1/4
 CN45: HW-P/C/V/B-1/4
 CN46: HW-P/C/V/B-1/4
 CN47: HW-P/C/V/B-1/4
 CN48: HW-P/C/V/B-1/4
 CN49: HW-P/C/V/B-1/4
 CN50: HW-P/C/V/B-1/4
 CN51: HW-P/C/V/B-1/4
 CN52: HW-P/C/V/B-1/4
 CN53: HW-P/C/V/B-1/4
 CN54: HW-P/C/V/B-1/4
 CN55: HW-P/C/V/B-1/4
 CN56: HW-P/C/V/B-1/4
 CN57: HW-P/C/V/B-1/4
 CN58: HW-P/C/V/B-1/4
 CN59: HW-P/C/V/B-1/4
 CN60: HW-P/C/V/B-1/4
 CN61: HW-P/C/V/B-1/4
 CN62: HW-P/C/V/B-1/4
 CN63: HW-P/C/V/B-1/4
 CN64: HW-P/C/V/B-1/4
 CN65: HW-P/C/V/B-1/4
 CN66: HW-P/C/V/B-1/4
 CN67: HW-P/C/V/B-1/4
 CN68: HW-P/C/V/B-1/4
 CN69: HW-P/C/V/B-1/4
 CN70: HW-P/C/V/B-1/4
 CN71: HW-P/C/V/B-1/4
 CN72: HW-P/C/V/B-1/4
 CN73: HW-P/C/V/B-1/4
 CN74: HW-P/C/V/B-1/4
 CN75: HW-P/C/V/B-1/4
 CN76: HW-P/C/V/B-1/4
 CN77: HW-P/C/V/B-1/4
 CN78: HW-P/C/V/B-1/4
 CN79: HW-P/C/V/B-1/4
 CN80: HW-P/C/V/B-1/4
 CN81: HW-P/C/V/B-1/4
 CN82: HW-P/C/V/B-1/4
 CN83: HW-P/C/V/B-1/4
 CN84: HW-P/C/V/B-1/4
 CN85: HW-P/C/V/B-1/4
 CN86: HW-P/C/V/B-1/4
 CN87: HW-P/C/V/B-1/4
 CN88: HW-P/C/V/B-1/4
 CN89: HW-P/C/V/B-1/4
 CN90: HW-P/C/V/B-1/4
 CN91: HW-P/C/V/B-1/4
 CN92: HW-P/C/V/B-1/4
 CN93: HW-P/C/V/B-1/4
 CN94: HW-P/C/V/B-1/4
 CN95: HW-P/C/V/B-1/4
 CN96: HW-P/C/V/B-1/4
 CN97: HW-P/C/V/B-1/4
 CN98: HW-P/C/V/B-1/4
 CN99: HW-P/C/V/B-1/4
 CN100: HW-P/C/V/B-1/4

COPYRIGHT THIS DRAWING IS THE PROPERTY OF SOUNDTRACS PLC. IT IS CONFIDENTIAL & NOT TO BE USED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SOUNDTRACS PLC.		CIRCUIT BOARD FILES		INTER BOARD FILES		SOUNDTRACS PLC		TITLE		GROUPS 1-3		SIZE		SHEET 107 7SHEETS		DRAWN		CHECKED		513336A		ISSUE		P2	
91. EMBLE ROAD, SUTTON, SURREY KT8 8AH TEL: 081-399 3352. FAX: 081-399 8021 TELEX: 9951873 STRACS G		CIRCUIT BOARD FILES		INTER BOARD FILES		SOUNDTRACS PLC		TOPAZ MAXI		GROUPS 1-3		SIZE		SHEET 107 7SHEETS		DRAWN		CHECKED		513336A		ISSUE		P2	

REV	REVISIONS
P1	4-1-95
P2	25-1-95 BAN

13



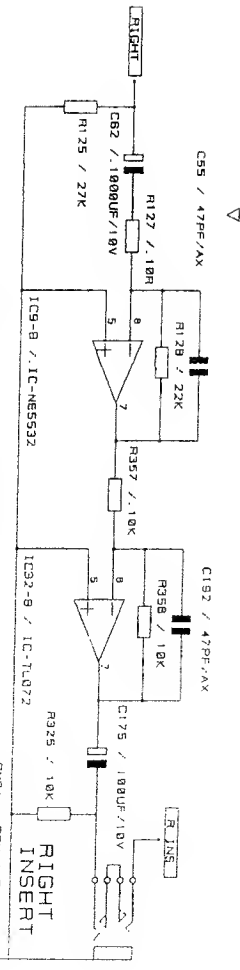
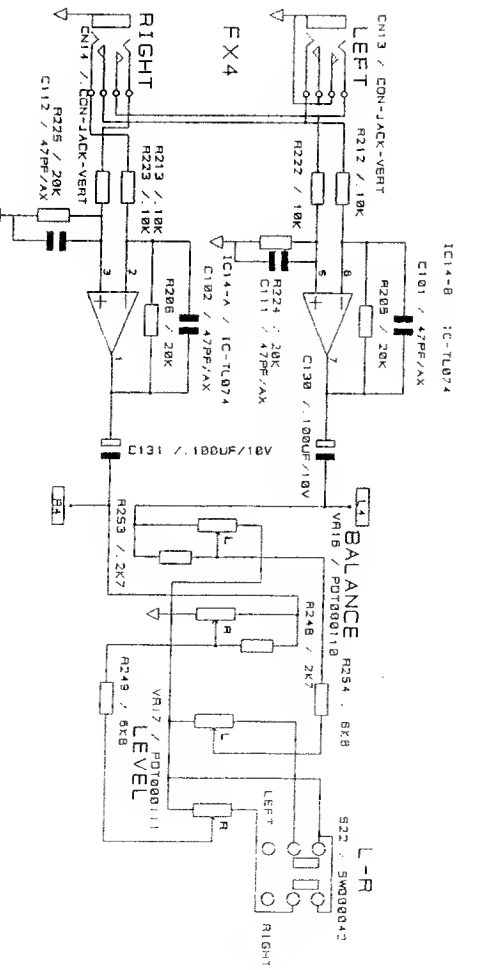
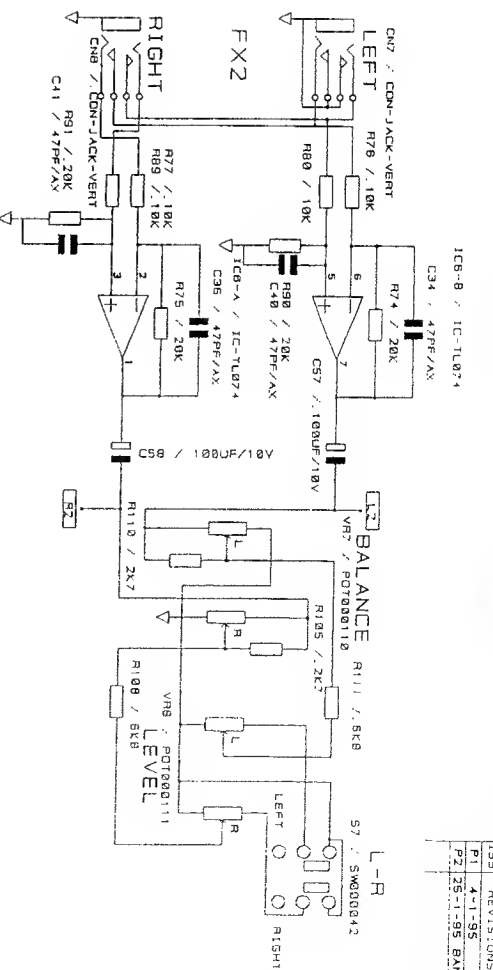


ISS	REVISED
P1	4-1-95
P2	25-1-95 BAN

Copyright: This drawing is the property of SOUNDTRACKS PLC & THE INFORMATION ON IT IS CONFIDENTIAL & NOT TO BE USED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SOUNDTRACKS PLC

REF: DRAWING FILE: HIGH: DRAWING FILES: 91: 6WELL ROAD, SUNNINGTON, SURREY KT9 8AH TEL: 081-389 3392, FAX: 081-389 6021 TELEX: 0951873 STRACKS G

TITLE	MASTER SOLOS
PRODUCT	TOPAZ MAXI
SIZE	SHEET 4 OF 7 SHEETS
DRAWN	OH
CHECKED	
DRAWING NO.	5133360
ISSUE	P2



ISS	REVISIONS
P1	4-1-95
P2	25-1-95 BAN

Copyright This Drawing is the Property of the Contractor and the Information

PCR DUMP FILE

HIER DUMP FILES

UNSUB - CON-JACK-VERM 1

[illegible]

100

CN3 + CON--

2017-11-17

IT IS CONFIDENTIAL & NOT TO BE USED FOR
ANY PURPOSE WITHOUT THE PRIOR WRITTEN
CONSENT OF SOUNDSPACE INC.

CIRCUIT DUMP FILES

—

SOUNDTRACS PLC
91, EWELE ROAD, SURBITON, SUR
TEL 081-389 3997 FAX 00

RTS-8AM

TITLE
FX AND MASTER BUS AMPS

SIZE	DRY
------	-----

SHEET 50F 7 SHEETS

1000

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG). The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG).

The Journal of Neuroscience, February 22, 2006 • 26(8):2279–2287 • 2287

TELEX 0951073 STRACS

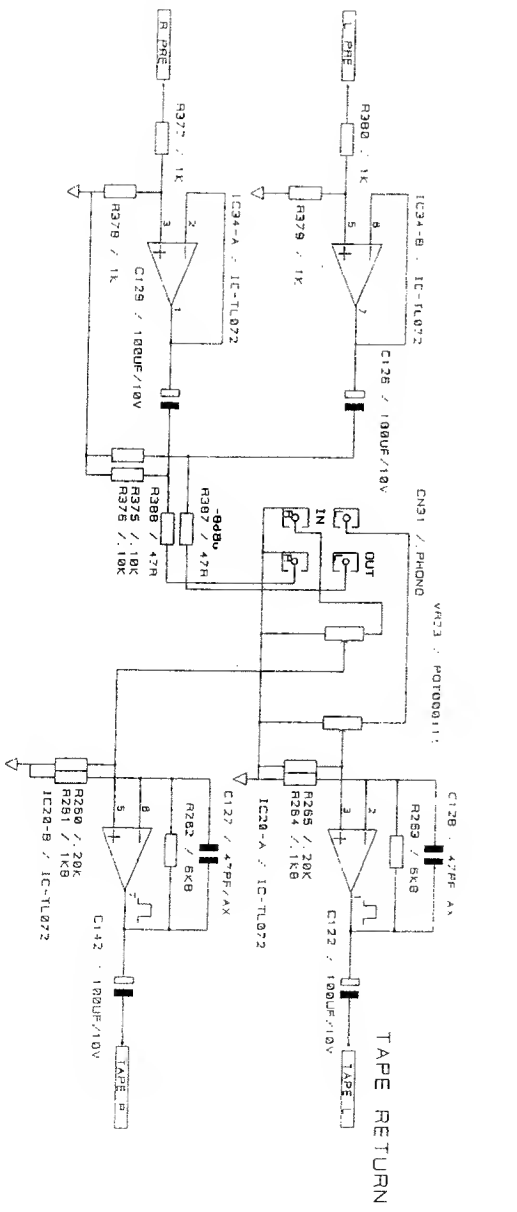
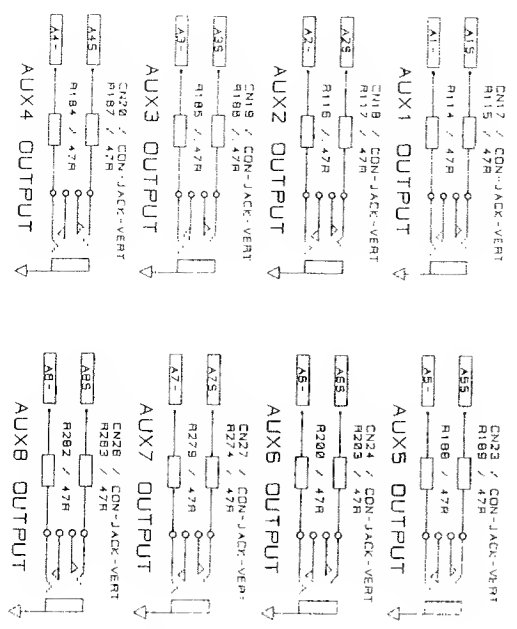
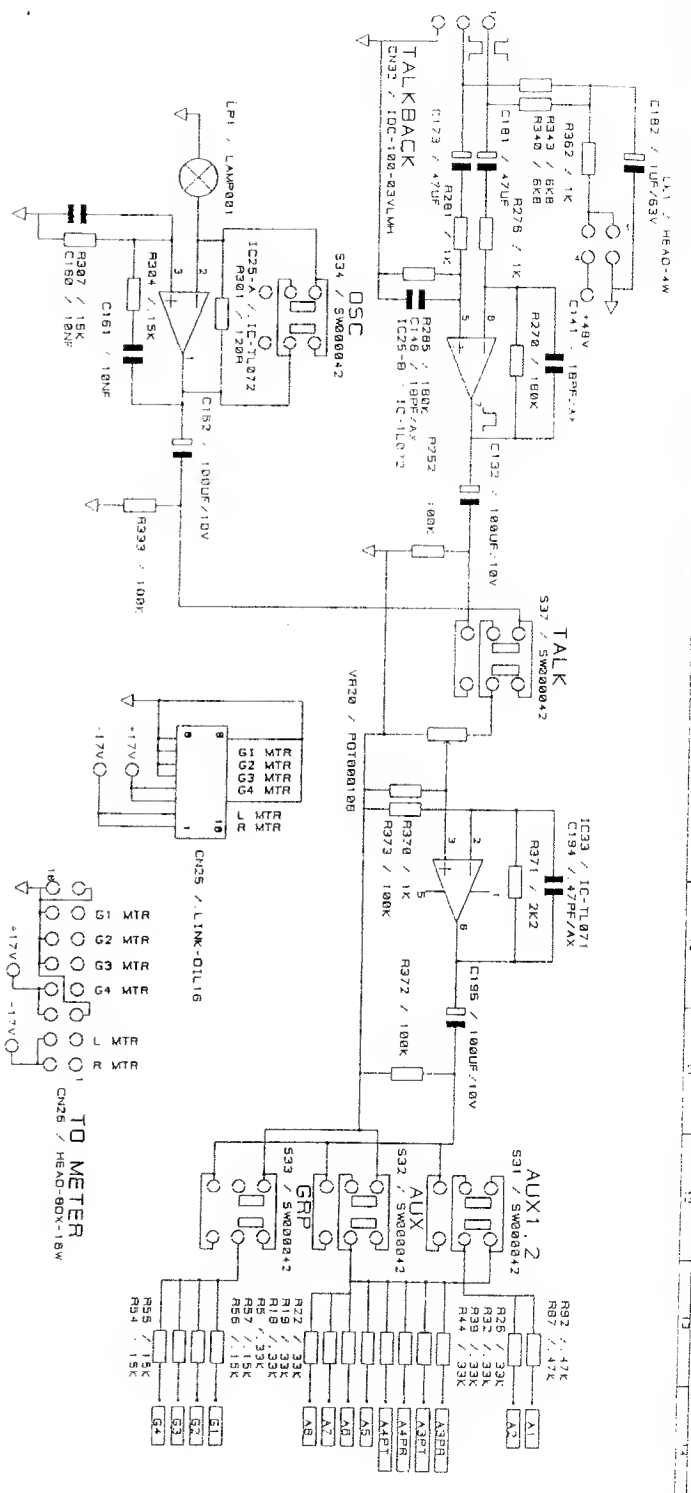
1700 60

PRODUCT	TOPAZ MAXI
---------	------------

DR.

DR	CHECKED	
ING NO	513336F	

100



155	HEV1510MS
P1	4-1-95
P2	25-1-95 BAN

(17)

THIS DRAWING IS THE PROPERTY OF SOUNDTRACS PLC & THE INFORMATION ON IT IS CONFIDENTIAL & NOT TO BE USED FOR ANY PURPOSES WITHOUT THE PRIOR WRITTEN CONSENT OF SOUNDTRACS PLC

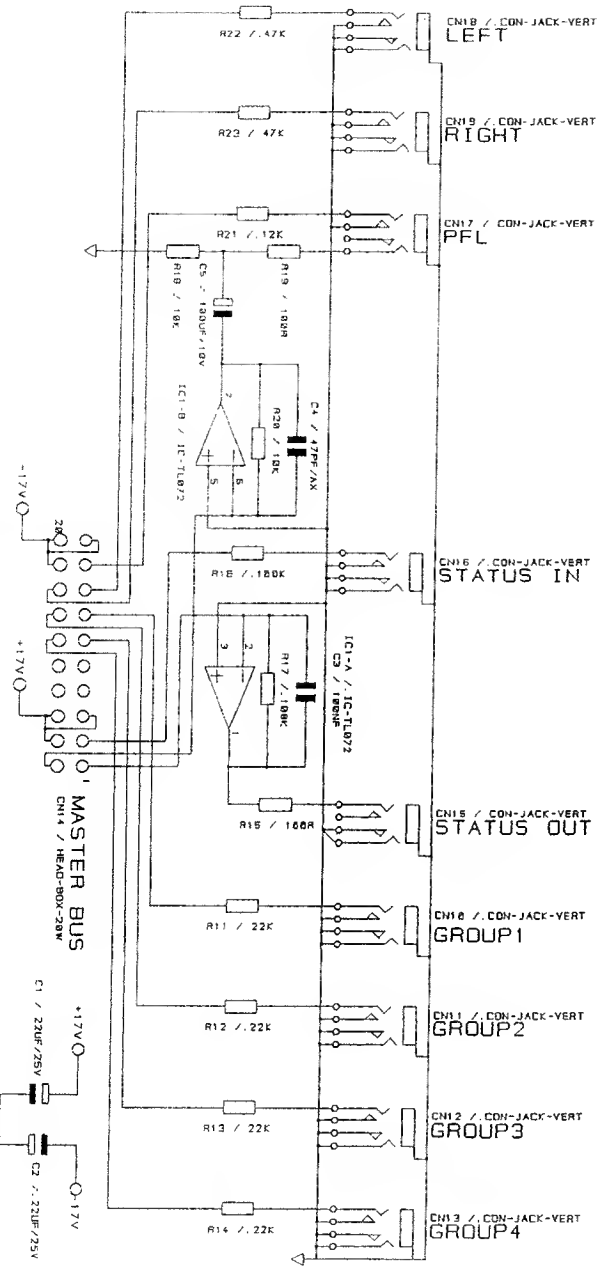
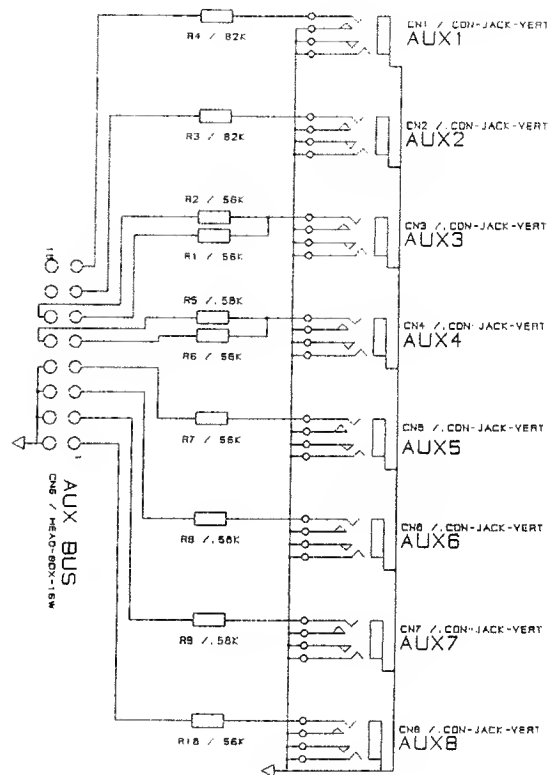
PCB LAYOUT FILE: HIGH LAYOUT FILES

CIRCUIT LAYOUT FILES

91, LITTLE ROAD, SUTTON, SURREY KT8 8AN
TEL: 081-389 3332, FAX: 081-389 6821
TELEX: 9901073 SOUNTRACS G

TITLE	HEADPHONE/ TAPE RETURN
PRODUCT	TOPAZ MAX I
SIZE	SHEET 7 OF 7 SHEETS
DRAWN	OH
CHECKED	
DRAWING NO	5133366
ISSUE	P2

REV	REVISIONS
1	18-11-04
2	2-6-05
3	3-8-05
4	2-5-06
5	2-5-06



DISCLAIMER: THIS DRAWING IS THE PROPERTY OF SOUNDTRACKS PLC & THE INFORMATION ON IT IS CONFIDENTIAL & NOT TO BE USED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SOUNDTRACKS PLC.

PCB DUMP FILE
CIRCUIT DUMP FILES

HIER DUMP FILES

SOUNDTRACKS PLC
S1, EWEILL ROAD, SURREY, SURREY KT8 8AH
TEL: 081-388 3882, FAX: 081-388 8821
TELEX: 8931873 STRACKS G.

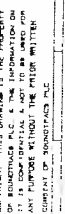
PRODUCT
TOPAZ MAX I

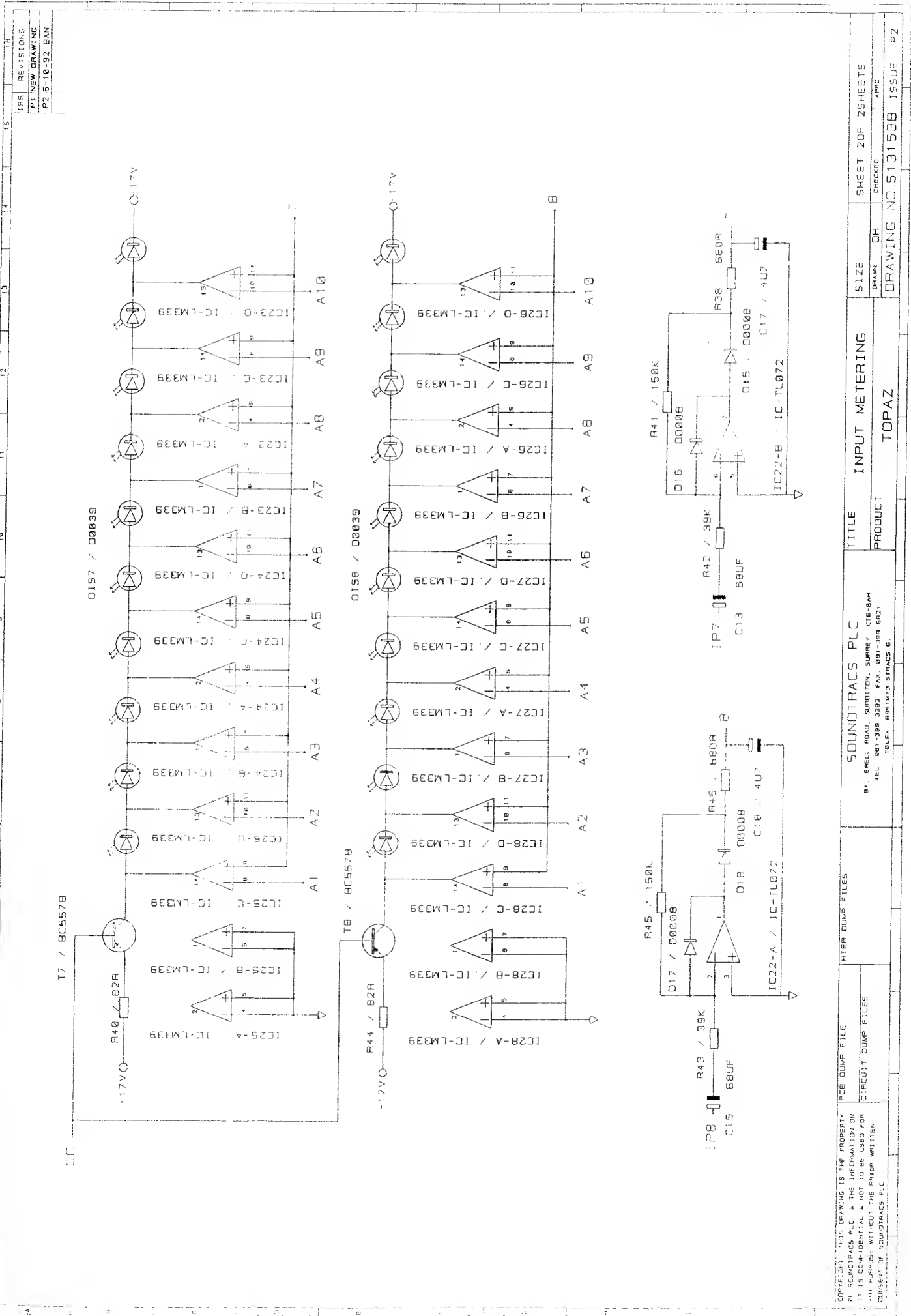
SIZE
DRAWN
OH

SHEET 1 OF 1 SHEETS
CHECKED
S13311

DRAWING NO.
S13311

ISSUE
A

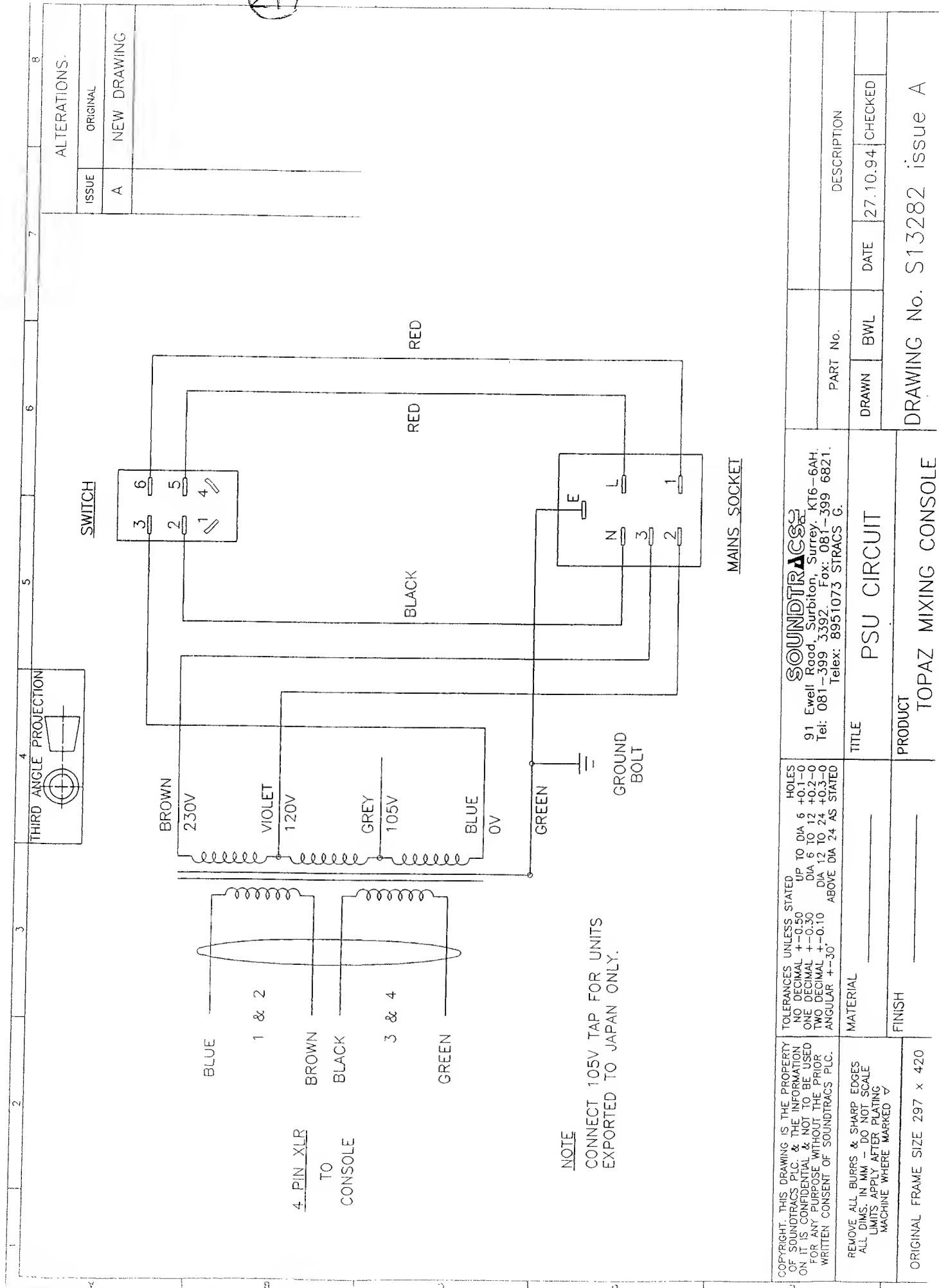




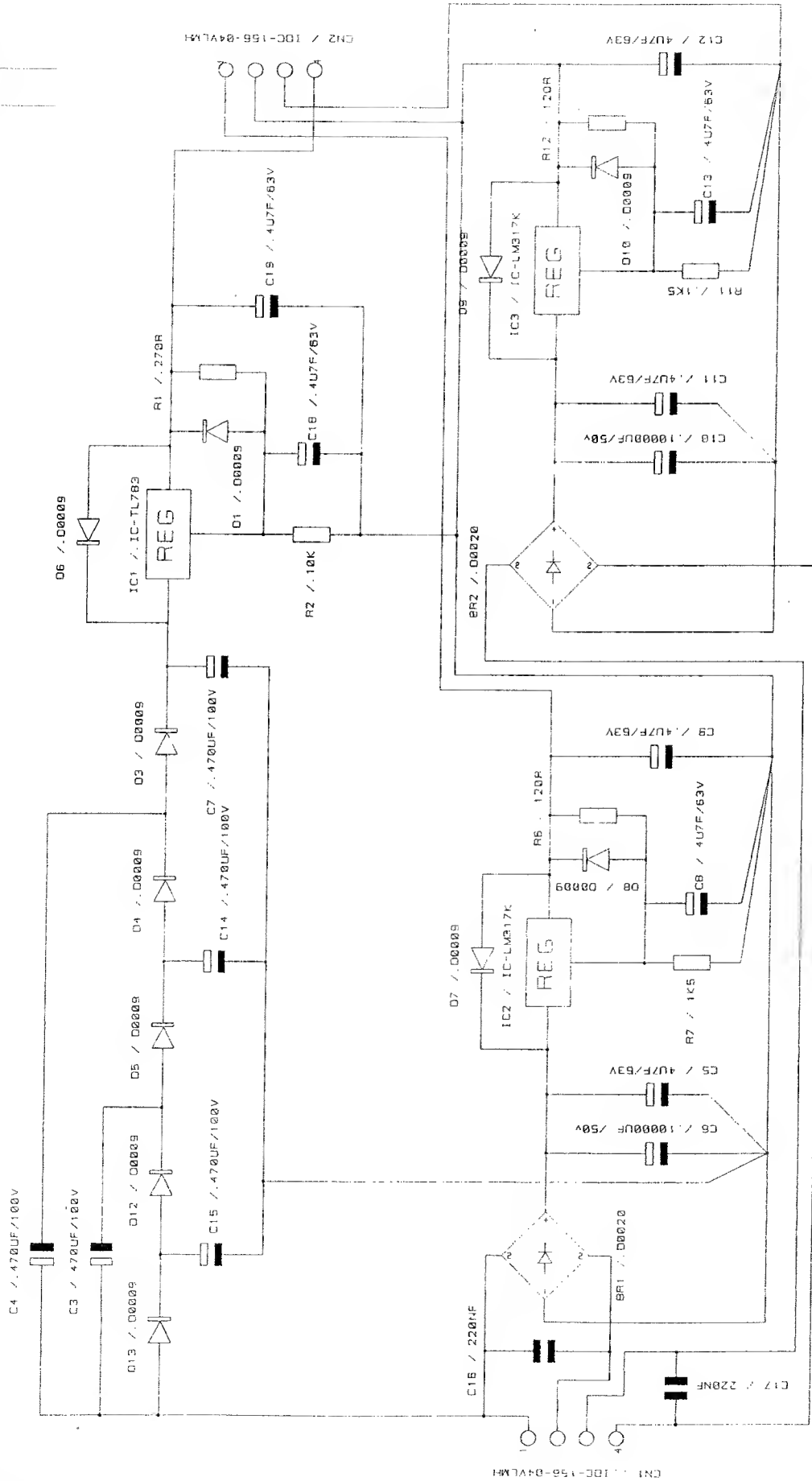
SOUNDTRACKS PLC		INPUT METERING		SHEET 20F 25SHEETS	
91, EWELE ROAD, SURREY, SURREY, KT6 8AA		TOPAZ		DRAWN	
TEL 001-399 3392 FAX 001-399 8621		DRAWING NO. S13153B		ISSUE	
TELEX 0551873 STNACS G		P2		P2	

External PSU as fitted to early Topaz Maxi

21



22



NOTE: IC2 and IC3 are LM338K regulators for Topaz Record 32 Channel Console.

00009 - 1N4003
00020 - K9PC2502

COPYRIGHT THIS DRAWING IS THE PROPERTY OF SOUNDTRACS PLC & THE INFORMATION ON IT IS CONFIDENTIAL & NOT TO BE USED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SOUNDTRACS PLC		PCB DUMP FILE CIRCUIT DUMP FILES HIER DUMP FILES		SOUNDTRACS PLC UNIT 21-0, BLENHEIM ROAD, LONGMEAD IND. EST. EPSOM, SURREY KT19 9XN ENGLAND TEL: 0181-368-5000 FAX: 0181-368-5050 FAX / EMAIL: 01372-726-180		TITLE POWER SUPPLY		SIZE SHEET 1 OF 15 SHEETS					
						PRODUCT TOPAZ RANGE		DRN JRS		APPD C&D		ISSUE A	
								DRG NO S13003					